PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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40		Application Number	r	10/657,145		
TRANSMITTAL	-	Filing Date		September 9, 2003		
1005 FORM		First Named Invent	or	David Alexander		
<b>E</b>		Art Unit		3714		
(to be used for all correspondence after it	initial filing)	Examiner Name		Chanda L. Harris		
Total Number of Pages in This Submiss		Attorney Docket Nu	ımber	IMMR-IMD0002D		
	ENCLO	SURES (check all that	t apply)			
Fee Transmittal Form	☐ Drawing(s			After Allowance Communication to TC		
☐ Fee Attached	Licensing	-related Papers		Appeal Communication to Board		
Amendment / Reply	Petition			of Appeals and Interferences  Appeal Communication to TC  (Appeal Notice, Brief, Reply Brief)		
After Final		Convert to a al Application		Proprietary Information		
Affidavits/declaration(s)		Attorney, Revocation of Correspondence Address	ess	Status Letter		
Extension of Time Request	Terminal Disclaimer			Other Enclosure(s) (please identify below):		
Express Abandonment Request	Request for Refund CD, Number of CD(s)					
	☐ Lar	ndscape Table on CD				
Certified Copy of Priority Document(s)	Remarks		,			
Reply to Missing Parts/ Incomplete Application			•	^		
Reply to Missing Parts under 37 CFR1.52 or 1.53						
SIGN	NATURE OF	APPLICANT, ATTOR	RNEY, OF	RAGENT		
Firm	THELEN REID	& PRIEST LLP				
Signature		$\mathcal{O}$				
Printed Name	David B. Ritchie					
Date	10/26	2005	Reg. No.	31,562		
	CERTIFICA	TE OF TRANSMISS	ION/MAII	LING		
I hereby certify that this correspondent Service with sufficient postage as fir Alexandria, VA 22313-1450 on the date	st class mail i	n an envelope address	e USPTO sed to: C	or deposited with the United States Posta commissioner for Patents, P.O. Box 1450,		
Signature	ame	( )nn el	)	, ,		
Typed or printed name Beatrice	Orozco			Date ()797777		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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Effective on 12/0 Sees pursuant to the Consolidated Appro	8/2004. priations Act. 2005 (H.R. 4818).	Complete if Known				
		Application Number	10/657,145			
FEE TRANS	SMITTAL	Filing Date	September 9, 2003			
for FY 2	2005	First Named Inventor	David Alexander			
Applicant claims small entity st	tatus. See 37 CFR 1.27	Examiner Name	Chanda L. Harris			
		Art Unit	3714			
TOTAL AMOUNT OF PAYMENT	(\$) 180.00	Attorney Docket No.	IMMR-IMD0002D			

METHOD OF PAYMEN	T (check all	that apply)							
☐ Check ☐ Credit Ca	□ Credit Card □ Money Order □ None □ Other (please identify) :								
Deposit Account De	posit Account	Number: 50-16	98	Deposit Account	Name: THEL	EN REID & PRI	EST LLP		
For the above-id	entified depos	sit account, the	Director is hereby	authorized to: (che	eck all that app	oly)			
Charge fe	e(s) indicated	below		Charge f	fee(s) indicate	d below, except	for the filing fee		
⊠ Charge a	ny additional f	fee(s) or underp	ayments of fee(s)	Credit ar	ny overpayme	nts			
Under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card									
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FEE CALCULATION									
1. BASIC FILING, SE	ARCH, AND	EXAMINATION	ON FEES		•	-			
	FILING F		SEARCH			ATION FEES			
Application Type	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fees Paid (\$)		
Utility Utility	300	150	500	250	200	100			
Design	200	100	100	50	130	65			
Plant	200	100	300	150	160	80			
Reissue	300	150	500	250	600	300			
Provisional	200	100	0	0	0	0			
2. EXCESS CLAIM FE	EES						Small Entity		
Fee Description						<u>Fee (\$)</u>	Fee (\$)		
Each claim over 20 (in	•	•	-)			50 200	25 100		
Each independent clair Multiple dependent cla	•	cluding Keissue	s)			360	180		
Total Claims	Extra C	aims Fe	e(\$) Fee	Paid (\$)		Multiple I	Dependent Claims		
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listings under 3'	7 CFR 1.52(e)	)), the application	on size fee due is	\$250 (\$125 for sm	nall entity) for	each additional	50		
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SUBMITTED BY				
Signature	MV	Registration No. (Attorney/Agent) 31,562	Telephone	(408) 292-5800
Name (Print/Type)	David B. Ritchie		Date 10 /26/	5

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PPLICANT:

David Alexander et al.

ERIAL NO.:

10/657,145

**CONFIRMATION NO.: 1899** 

FILING DATE:

September 9, 2003

TITLE:

Interface Device and Method for Interfacing Instruments to Medical

Procedure Simulation Systems

**EXAMINER:** 

Chandra L. Harris

Telephone: (571) 272-4448

Fax: (703) 872-9306

ART UNIT:

3714

## **CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date: 10/20/2005

Name:

Beatrice Orozco

MAIL STOP: AMENDMENT

**COMMISSIONER FOR PATENTS** 

P.O. Box 1450

**ALEXANDRIA, VA 22313-1450** 

## INFORMATION DISCLOSURE STATEMENT

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached (unless the blanket waiver referred to below applies), may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§ 1.56, 1.97 and 1.98. The Examiner is requested to review, consider and document each such item in the official record of this application.

Note: If this box ⊠ is checked, this case was filed after June 30, 2003 and qualifies for the blanket waiver of deposit of copies of U.S. Patents and U.S. Patent Application Publications in

accordance with the written waiver of 37 CFR §1.98 (a)(2)(i) dated July 11, 2003. Accordingly, such copies are not attached.

This Information Disclosure Statement under 37 CFR §§ 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

T

This statement is filed pursuant to (CHECK ONE BOX):

37 C.F.R. § 1.97(b).

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
  - (3) before the mailing date of a first office action on the merits; or
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

**⊠** 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; or
- (3) an action that otherwise closes prosecution in the application.

## Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); or
  - (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).

	37 C.F.R. § 1.97(d).	
	This information disclosure statement is filed after the period specified in	ı 37
C.F.R. § 1.97	(c).	

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); and
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

II

	· · · · · · · · · · · · · · · · · · ·
Fees Due (C)	HECK ONE BOX):
	No fee is due.
	The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).
	III · ·
Certification	(CHECK ONE BOX):
$\boxtimes$	No certification is necessary.
	Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies: That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
	Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:  No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this information disclosure statement.

IMMR-IMD0002D (034701-000005)

IV

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

Dated: October (), 2005

patent issued thereon.

David B. Ritchie

Registration No. 31,562

Respectfully submitted,

THELEN REID & PRIEST LLP

THELEN REID & PRIEST LLP P.O. Box 640640 San Jose, CA 95164-0640 Telephone: (408) 292-5800

Fax: (408) 287-8040

Form PT (Rev. 2-3	n PTO 1449 v. 2-32) U.S. Department of Commerce							Serial No. 10/657,145		
(10.12)		Patent and Trader								
OLP E	Infor	mation Disclosure	Statement by A	pplicant	<del></del>	nt: Alexander et al		1811 <u>1</u> 11		
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			T	J.S. Patent Docume	ents					
Init		Document No.	Date	Name Name		Class	Subclass	Filing	Date	
	A	2,972,140	9/23/1958	J. Hirsch						
	В	3,157,853	12/6/1957	J. Hirsch						
	С	3,220,121	11/30/1965	A.E. Cutler						
	D	3,226,846	1/4/1966	W.C. Wood			<u>-</u>		_	
	E	3,304,434	2/14/1967	R.A. Koster				<del>-</del>		
<u></u>	F	3,497,668	2/24/1970	J. Hirsch				1		
	G	3,520,060	7/14/1970	C.L. Crabtree et al	•			<del> </del>		
	Н	3,517,446	6/30/1970	P.R. Corlyon et al.						
	I	3,541,541	11/17/1970	P.C. Engelbart						
	J	3,623,064	11/23/1971	Kagan						
· · · · · · · · · · · · · · · · · · ·	K	3,748,366	7/24/1973	Rader et al.						
	L	3,775,865	12/4/1973	Kowan					<u>`</u>	
	M	3,902,687	9/2/1975	Hightower		-				
	N	3,903,614	9/9/1975	Diamond et al.						
	0	3,911,416	10/7/1975	Feder	<del></del> :	-				
	P	4,127,752	11/28/1978	Lowthorp						
<u></u>	Q	4,160,508	7/10/1979	Salisbury, Jr.						
,, <u> </u>	R	4,236,325	12/2/1980	Hall et al.						
	S	4,262,549	4/21/1981	Schwellenbach.						
	Т	4,321,047	3/23/1982	Landis						
	U	4,333,070	6/1/1982	Barnes						
				Foreign Documen	ts					
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	V	H2-185278	1/12/1989	JP m			<del>-</del>	$\frac{X}{X}$		
	W	H4-8381 H5-192449	4/25/1990 1/20/1992	JP JP				$\frac{X}{X}$		
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	17			ding Author, Title, ystem for the Study of				ent of	<u></u>	
	Y	Mechanical Engine	ering, MIT, June	1989, 33 pages.						
	Z	Adelstein et al., "D Vol. 42, Advances		entation of a Force Ref E, 1992, pp. 1-12.	lecting Man	ipulandum for l	Manual Control	Research"	, DSC-	
	AA	Aukstakalnis, et al.	, "Silicon Mirage:	The Art and Science of						
	AB	Baigrie, Stephan A	., "Electric Contro	Loading - A Low Cons Conference, Novemb	st, High Per per 6-8, 199	formance Alter 0, pp. 247-254.	native", Proceed	ings of		
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Examine	r: Initia	al if citation consider	ered, whether or	not citation is in con	formance v	vith MPEP 60	9; Draw line th	rough ci	tation	
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Page <u>2</u> of 14

	Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				_	ocket No. MD0002D	1	Serial No. 10/657,145		
	Infor	mation Disclosure S		pplicant	Applicate David A	nt: lexander et al				
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Init.	<del></del>	Document No.	Date	J.S. Patent Documen Name	IIS	Class	Subclass	Filing	Date	
111111.	AC	4,360,345	11/23/1982	Hon	<u>.</u>					
	AD	4,409,479	10/11/1983	Sprague et al.						
	AE	4,439,162	3/27/1984	Blaine						
	AF	4,459,113	7/10/1984	Boscaro Gatti et al.	<del></del> .	·		1		
	AG	4,464,117	8/7/1984	Foerst					<del></del>	
	AH	4,484,191	11/20/1984	Vavra	<del>.</del>		<del> </del>	<del> </del>		
	AI	4,490,810	12/25/1984	Hon					···· · · ·	
	AJ	4,513,235	4/23/1985	Acklam et al.				<u> </u>		
	AK	4,581,491	4/8/1996	Boothroyd	<u> </u>			<del> </del>	· ·	
	AL	4,599,070	7/8/1986	Hladky et al.			<del> </del>		<del></del>	
	AM	4,642,055	2/10/1987	Saliterman			-		<u> </u>	
	AN	4,042,033	11/24/1987	de Vries et al.						
	AO	4,708,030	12/8/1987	Culver	<del></del>			-		
	AP	4,712,101	12/15/1987	Alban						
			2/23/1988	Amplatz				-		
	AQ	4,726,772	8/30/1988	Born					<u> </u>	
	AR	4,767,333	9/27/1988	Baldwin				_		
	AS	4,773,865	12/6/1988	Zikria			<del> </del>		·-··	
	AT	4,789,340	12/0/1988	Selinko			<u>'</u>	-	•	
	AU	4,794,392		Barrabee	·				<del></del>	
	AV	4,804,328	2/14/1989	Barrabee	<del> </del>		1			
				Foreign Documents	6				<b>-</b>	
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Init.		Document No.	Date	Country		Class	Subclass	Yes	No	
	AW	H7-24147	7/12/1993	JР				X		
	AX	0 349 086	6/29/1988	EP				X		
	AY	0 970 714	1/12/1990	EP				X		
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<del></del>	AZ	Bejczy, et al., "A Labora	tory Breadboard S	ding Author, Title, I System for Dual-Arm Telec	operation", S	OAR '89 Worksh	op, July 25-27, 1	989, pp. 1-	12.	
	BA	1 -		eral Force-Reflecting Co	ontrol of M	anipulators", Pr	roceedings of Fo	ourth CISN	<b>/</b> 1-	
	BB		netic Coupling B	Setween Operator and R Mechanical Engineers,			national Comput	er Techno	ology	
	BC			Machine Interface for A			Science, vol. 208	, no. 4450	), 1980,	
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Page <u>3</u> of 14

	Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office					Atty. Docket No. Serial No. 10/657,145			
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Init.	T -	Document No.	Date	Name	113	Class	Subclass	Filing	Date
	BD	4,807,158	2/21/1989	Blanton et al.				<del>                                     </del>	
	BE	4,867,168	9/19/1989	Stoor et al.					
	BF	4,867,685	9/19/1989	Brush et al.			<u> </u>	<u> </u>	
	BG	4,879,668	11/7/1989	Cline et al.			···		
	BH	4,885,565	12/5/1989	Embach	_				
	BI	4,891,764	1/2/1990	McIntosh	<del></del>				
	BJ	4,907,973	3/13/1990	Hon					
	BK	4,930,770	6/5/1990	Baker				<del>-</del>	
	BL	4,934,694	6/19/1990	McIntosh	<u> </u>			<del> </del>	
	BM	4,936,862	6/26/1990	Walker et al.			<u> </u>	<u> </u>	
***	BN	4,936,892	6/26/1990	Gehring et al.				<del> </del> -	
	ВО	4,955,654	9/11/1990	Tsuchihashi et al.		- <del> </del>		_	
	BP	5,019,761	5/28/1991	Kraft					, <u></u>
	BQ	5,022,384	6/11/1991	Freels et al.					
	BR	5,022,407	6/11/1991	Horch et al.				<u> </u>	
	BS	5,035,242	7/30/1991	Franklin et al.					
	BT	5,038,089	8/6/1991	Szakaly					
	BU	5,044,956	9/3/1991	Behensky et al.		•		_	
	BV	5,077,608	12/31/1991	Dubner					
	BW	5,078,152	1/7/1992	Bond et al.	·				<u></u>
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				Foreign Documents	<u> </u>		· · · · · · · · · · · · · · · · · · ·	Tran	slation
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	BX	2 252 656	8/12/1992	GB				X	
	BY	2 288 686	10/25/1995	GB				X	
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				ding Author, Title, I					
. –	BZ	318-324.	•	ontrol System (UCCS)					
	CA	Bliss et al., "Optical MMS-11, No. 1, Ma		Conversion for the Blin 65.	d", IEEE	Transaction of N	Man-Machine Sy	stems, vo	1.
	СВ	Brooks et al., " Han	d Controllers for T	Teleoperation", A State-	of-the-Art	Technology Su	rvey and Evalua	tion, JPL	
	CC	Publication 85-11, l Burdea et al., "Distr		1-84. ce Feedback", IEEE Int	ernational	Conference on	Robotics and Au	tomation.	May 2.
		1993, pp. 25-44.							,
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Page <u>4</u> of 14

	orm PTO 1449				Atty. Docket No. Serial No.				
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		Patent and Traden	MIK Office		Applica	nt:	1		<del>.</del> ,
	Infor	mation Disclosure	Statement by A	pplicant	<u> </u>	lexander et al	<del></del>		
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Tools	1	Document No.	Date	J.S. Patent Document Name	its	Class	Subclass	Filing	Date
Init.	CD		2/4/1992	Glassman et al.	<del></del>	Class	Dubciass	Timig	
	CE	5,086,401 5,099,846	3/31/1992	Hardy					
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		5,112,228					-	+	
	CG	5,130,794	7/14/1992	Ritchey				<del> </del>	
	CH	5,137,458	8/11/1992	Unas et al.				-	
	CI	5,149,270	9/22/1992	McKeown				<del>                                     </del>	
•	CJ	5,165,897	11/24/1992	Johnson	·			·	
	CK	5,175,459	12/29/1992	Danial et al.	<del></del>				
, <del>1</del> -	CL	5,185,561	2/9/1993	Good et al.					
	CM	5,186,695	2/16/1993	Mangseth et al.					
	CN	5,205,289	4/27/1993	Hardy et al.					
	CO	5,212,473	5/18/1993	Louis					
	CP	5,220,260	6/15/1993	Schuler	·				
	CQ	5,222,499	6/29/1993	Allen et al.	<del></del>				
	CR	5,240,417	8/31/1993	Smithson et al.					
	CS	5,261,404	11/16/1993	Mick et al.					
	CT	5,271,290	12/21/1993	Fischer			<u> </u>		
-	CU	5,273,038	12/28/1993	Beavin	,,				
	CV	5,275,174	1/4/1994	Cook					
	CW	5,283,970	2/8/1994	Aigher					
				Foreign Documents					
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	CX	98/03954	1/29/1998	PCT				X	
				11 A (1 (17)(1) T		4 D	-4-)		
	CY			ding Author, Title, Education   Us				EEE, 199	3. pp.
		955-960.							-, FF
	CZ	Cyberman Technolog Programming Guide,	• •	ogic Cyberman SWIFT 1-29.	Supplemen	nt to Logitech N	Mouse Reference	and	
	DA	Calder, "Design of a	Force-Feedback T	ouch-Inducing Actuator	for Teleop	erator Robot C	ontrol", Bachelo	r of Scien	ce
	DB	Thesis, MIT, May 19		aptic Perception by the I	Jand: Svet	em Description	and Some Resu	lts" DSC	-Vol
	שט			ol. 1, ASME, 1984, pp.				, 550	
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Form PT (Rev. 2-3		U.S. Department Patent and Trader			, -	ocket No. MD0002D		Serial No. 10/657,145		
	Infor	mation Disclosure		Applicant	Applicate David A	nt: lexander et al				
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			,	U.S. Patent Documer	nts					
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	DC	5,295,694	3/22/1994	Levin			-			
	DD	5,299,810	4/5/1994	Pierce et al.						
	DE	5,309,140	5/3/1994	Everett, Jr. et al.					-	
	DF	5,311,422	5/10/1994	Loftin et al.				1		
	DG	5,320,326	6/14/1994	Ju et al.		· <u> </u>	-	<u> </u>	_	
	DH	5,320,537	6/14/1994	Watson		-			<u>.</u>	
	DI	5,320,538	6/14/1994	Baum			!	·		
	DJ	5,322,441	6/21/1994	Lewis et al.	<u> </u>					
	DK	5,333,106	7/26/1994	Lanpher et al.			-			
	DL	5,334,027	8/2/1994	Wherlock				-		
	DM	5,338,198	8/16/1994	Wu et al.						
	DN	5,343,871	9/6/1994	Bittman et al.						
	DO	5,354,202	10/11/1994	Moncrief et al.	<del>-</del> -					
	DP	5,376,007	12/27/1994	Zirm		-	<del>                                     </del>			
	DQ	5,377,116	12/27/1994	Wayne et al.						
	DR	5,385,474	1/31/1995	Brindle						
	DS	5,389,865	2/14/1995	Jacobus et al.					<u>, ,,,,,</u>	
_	DT	5,391,081	2/21/1995	Lampotang et al.						
	DU	5,414,337	5/9/1995	Schuler						
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				ding Author, Title, I						
	DV			y for Speech Perception by					<u> </u>	
	DW	Gobel et al., "Tactile pp. 1-5.	Feedback Applied to	Computer Mice", Internati	onal Journal	of Human-Comp	outer Interaction, v	ol. 7, no. 1	, 1995,	
	DX	Gotow et al., "Cont	Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback", Proceedings of the 1989 American Control Conference, June 21-23, 1989, pp. 332-337.							
	DY			ontrol Conference, June ated Hand System for th				nipulation	n".	
		IEEE, 1992, pp. 13						F		
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	Rev. 2-32)  U.S. Department of Commerce  Patent and Trademark Office			•		ocket No. IMD0002D	Serial No 10/657,14	10/657,145	
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	DZ	5,436,622	7/25/1995	Gutman et al.				- <del></del>	
	EA	5,437,607	8/1/1995	Taylor					
	EB	5,438,529	8/1/1995	Rosenberg et al.		-	-		
	EC	5,451,924	9/19/1995	Massimino et al.			<del> </del>		_
	ED	5,454,722	10/3/1995	Holland et al.					
	EE	5,459,382	10/17/1995	Jacobus et al.				<del>- </del>	
_	EF	5,466,213	10/14/1995	Hogan et al.				<u> </u>	*****
	EG	5,482,472	1/9/1996	Garoni et al.			<del> </del>		
***	EH	5,483,254	1/9/1996	Powell					
	EI	5,483,961	1/16/1996	Kelly et al.	**************************************				
	EJ	5,509,810	4/23/1996	Schertz et al.				1	
•	EK	5,510,832	4/23/1996	Garcia					
	EL	5,513,992	5/7/1996	Refait					
	EM	5,518,406	5/21/1996	Waters					
	EN	.5,531,227	7/2/1996	Schneider					
	EO	5,546,943	8/20/1996	Gould					
	EP	5,547,382	8/20/1996	Yamasaki et al.					i
<del></del>	ËQ	5,552,995	9/3/1996	Sebastian					
	ER	5,559,412	9/24/1996	Schuler					
	ES	5,575,761	11/19/1996	Hajianpour					
				Foreign Documents	2				
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			4 67	1. A 41 (T):41 T	D-4- D		-4-)		
	ET	IBM Technical Dis		ding Author, Title, I Mouse Ball-Actuating D				ol. 32, no	. 9B,
	EU	February 1990.  Iwata, "Pen-Based	Haptic Virtual Env	vironment", IEEE, 1993,	, pp. 287-2	92.			<u>.</u>
	EV	Jacobsen et al., "Hi	gh Performance, I	Dextrous Telerobotic Ma , 1991, pp. 213-218.			ection", Intervent	tion/ROV	'91,
	EW	<u> </u>	lemory Alloy Tact	ical Feedback Actuator"	, Armstron	ig Aerospace M	edical Research	Laborator	у,
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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office					_	ocket No. IMD0002D	Serial No. 10/657,145			
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	EX	5,576,727	11/19/1996	Rosenberg et al.				-		
	EY	5,589,854	12/31/1996	Tsai				-		
	EZ	5,593,306	1/14/1997	Kohnke					. ·	
·	FA	5,609,485	3/11/1997	Bergman et al.	_				_	
<del></del>	FB	5,623,582	4/22/1997	Rosenberg	-					
	FC	5,629,594	5/13/1997	Jacobus et al.	-					
	FD	5,666,138	9/9/1997	Culver					•	
	FE	5,682,886	1/4/1997	Delp et al.						
	FF	5,687,259	11/11/1997	Linford					***	
	FG	5,690,582	11/25/1997	Ulrich et al.						
	FH	5,691,898	11/25/1997	Rosenberg et al.						
	FI	5,701,140	12/23/1997	Rosenberg et al.						
	FJ	5,704,791	1/6/1998	Gillio						
	FK	5,721,566	2/24/1998	Rosenberg et al.						
	FL	5,722,836	3/3/1998	Younker						
	FM	5,724,264	3/3/1998	Rosenberg et al.		"				
	FN	5,731,804	3/24/1998	Rosenberg						
	FO	5,734,373	3/31/1998	Rosenberg et al.						
	FP	5,739,811	4/14/1998	Rosenberg et al.						
	FQ	5,740,802	4/21/1998	Nafis et al.	<u></u>					
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	FV	5,742,278	4/21/1998	Chen et al.		Class		18		
	FW	5,746,753	5/5/1998	Sullivan et al.		<u> </u>	<del> </del>			
	FX	5,755,577	5/26/1998	Gillio		<del> </del>				
	FY	5,766,016	6/16/1998	Sinclair et al.						
	FZ	5,767,839	6/16/1998	Rosenberg	· · · · · · · · · · · · · · · · · · ·		•		. <u> </u>	
<del>-</del>	GA	5,768,134	6/16/1998	Swaelens et al.					<del></del>	
<u>.</u>	GB	5,769,640	6/23/1998	Jacobus et al.						
	GC	5,769,650	6/23/1998	Aoyama et al.	<del></del>	<del>                                     </del>			· ·	
	GD	5,772,836	6/30/1998	Ogawa				<del> </del>	<u> </u>	
	GE	5,785,630	7/28/1998	Bobick et al.						
_	GF	5,791,908	8/11/1998	Gillio		<del>-</del>				
	GG	5,800,177	9/1/1998	Gillio		1			· · · · · · · · · · · · · · · · · · ·	
	GH	5,800,178	9/1/1998	Gillio	···					
	GI	5,805,140	9/8/1998	Rosenberg et al.					· · · ·	
	GJ	5,807,115	9/15/1998	Hu	<del></del> -					
	GK	5,821,920	10/13/1998	Rosenberg et al.						
	GL	5,825,308	10/20/1998	Rosenberg					· •	
	GM	5,825,941	10/20/1998	Linford et al.						
	GN	5,828,197	10/27/1998	Martin et al.						
• •	GO	5,853,292	12/29/1998	Eggert et al.						
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	GP	Lake, "CYBERMA			Date, I el	inent i ages,	<u> </u>			
	GQ	Marcus, "Touch Fe	edback in Surgery	", Proceeding Cutting	Edge", Sept	ember 8-11, 19	94, pp. 96-97.			
	GR	Manual", January 1	988.	tem/Telerobot Demons						
	GS								,,,,	
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Form P (Rev. 2	TO 1449 -32)	U.S. Department	of Commerce		Atty. Docket No. Serial No. IMMR-IMD0002D 10/657,145					
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	GT	5,855,583	1/5/1999	Wang et al.						
	GU	5,873,731	2/23/1999	Prendergast						
	GV	5,873,732	2/23/1999	Hasson					_	
	GW	5,880,976	·3/9/1999	DiGioia III et al.						
	GX	5,882,206	3/16/1999	Gillio						
	GY	5,882,207	3/16/1999	Lampotang et al.	-			Î		
	GZ	5,889,670	3/30/1999	Schuler et al.						
·	HA	5,890,908	4/6/1999	Lampotang et al.						
	НВ	5,891,131	4/6/1999	Rajan et al.						
	НС			Dubois et al.						
	HD	5,941,710			• ••		-			
	HE	5,945,056	8/31/1999	Dau et al.				<u> </u>		
	HF	5,947,743	9/7/1999	Hasson						
	HG	5,951,301	9/14/1999	Youker						
	HH	5,956,040	9/21/1999	Asano et al.						
	HI	5,967,790	10/19/1999	Strover et al.		-				
	НЈ	5,995,738	11/30/1999	DiGioia III et al.						
	HK	6,062,865	5/16/2000	Bailey					•"	
	HL	6,111,577	8/29/2000	Zilles et al.						
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		Other Do	cuments (Inclu	ding Author, Title, I	Date. Pert	inent Pages.	etc.)			
	HM			urnal, July/August 1972						
	HN	Ouhyoung, et al., "A	PC Video Game	s", IEEE Transa	ctions on	0723533				
	ПО	Consumer Electroni		August 1995. ular Docking", Doctora	l Dissertation	on 1990 nn 1-	369		_	
	НО			of a Low-Cost Force Fe			<u> </u>	nvironme	ent"	
	HP	Proceedings of the	Third Pacific Conf	ference on Computer G	raphics and	Applications, A	ugust 21-24, 19	95, pp. 30	)9-319.	
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	HQ	6,160,489	12/12/2000	Perry et al.					
_	HR	6,223,100	4/24/2001	Green			+		
	HS	6,377,011	4/23/2002	Ben-Ur					
-	HT	6,422,941	7/23/2002	Thorner et al.					
	HU	6,876,891	4/5/2005	Schuler et al.					<u> </u>
	HV	Des. 233,238	10/15/1974	Reid et al.					
	HW	Des. 272,833	2/28/1984	van Assche et al.					
	HX	Des. 392,878	3/31/1998	Nordstrom et al.					
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	HY	Patrick et al., "Desig	n and Testing of	a Non-Reactive, Fingert t Robotics in Space, SPI	ip, Tactile	Display for Inter-	action with Ren	note	·
	HZ	Patrick, "Design, Co Environments", Aug	nstruction, and T	esting of a Fingertip Tac	tile Displa	y for Interaction	with Virtual an	d Remote	;
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Init. Document No. Date Country Class Subclass Yes No  Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)  IC Rosenberg, "Virtual Fixtures: Preceptual Overlays Enhance Operator Performance in Telepresence Tasks", Ph.D. Dissertation, June 1994.  ID Russo et al., "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices", Advances in Robotics ASME, DSC-vol. 42, 1992, pp. 63-70.  IE Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick", MIT Libraries Archives, May 1990, pp. 1-131.  IF Safe Flight Instrument Corporation, Component Maintenance Manual Coaxial Control Shaker Part No. C-25502, July 1, 1987, 3 pages.  Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation	Init.		Document No.	Date	Name		Class	Subclass	Filing	Date
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Dissertation, June 1994.  ID Russo et al., "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices", Advances in Robotics ASME, DSC-vol. 42, 1992, pp. 63-70.  IE Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick", MIT Libraries Archives, May 1990, pp. 1-131.  IF Safe Flight Instrument Corporation, Component Maintenance Manual Coaxial Control Shaker Part No. C-25502, July 1, 1987, 3 pages.  Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation										
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	IG	Other Doo Safe Flight Instrume		luding Author, Ti ical Manual Overhau				ontrol Sha	aker
		Part No. C-25502",	July 15, 1980, 2	21 pages.					
	IH	Scannell, "Taking a							<u></u>
	II	Shimoga, "Finger Fo Conference on Intell	orce and touch ligent Robotic S	reedback Issues in D Systems for Space Ex	exterous Telent eploration, Sept	nanipulation", Pi ember 30-Octob	per 1, 1992, pp. 1	urın Annu 59-178.	<u></u>
	IJ	Snow et al., "Model	-X Force-Refle	cting-Hand-Controll	er", June 15, 19	89.			
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	Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002D  Serial No. 10/657,145					
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	IK	Stanley et al., "Comp	puter Simulation	on of Interacting Dyns ASME, DSC-vol. 42	amic Mechanica	l Systems Usin		mory Par	allel	
	IL	Tadros, "Control Sys Actuators", MIT Arc	stem Design fo	or a Three Degree of I	Freedom Virtual	Environment S	Simulator Using N	/lotor/Bra	ke Pair	
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